POWER AMPLIFIERS P1150/P1250/P2150/P2250

SERVICE MANUAL



P1250



P2250

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IMPORTANT NOTICE

This manual has been provided for the use of authorized Yamaha Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically Yamaha Products, are already known and understood by the users, and have therefore not been restated.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all Yamaha product owners that all service required should be performed by an authorized Yamaha Retailer or the appointed service personature.

IMPORTANT: The presentation or sale of this manual to any individual or firm does not constitute authorization, certification, recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of Yamaha are continually striving to improve Yamaha products, Modifications are, therefore, inevtable and Ampses in specification are subject to Amage without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit theavy gauge black wires connect to this b

IMPORTANT: Turn the unit OFF during disassembly and parts replacement. Recheck <u>all</u> work before you apply power to the unit.

SPECIFICATIONS

Output Power Specs meet		OUTPUT SPE	CIFICATIONS				
FTC preconditioning criteria	8 oh	ms	4 oh	ms			
	20Hz - 20kHz	1kHz	20Hz - 20kHz	1kHz			
Continuous sine wave output power at less than 0.05% THD	100 W	105 W	150 W	165 W			
Total Harmonic Distortion (THD)	≤ 0.007% @ 55 W	≤ 0.003% @ 55 W	≤0.01% @ 75 W	≤0.005% @ 75 W			
Intermodulation Distortion (IHD) 60 Hz & 7 kHz 4 : 1	≤0.005%	@ 55 W	≤0.01%				
Power Bandwidth (@ THD ≤0.1%)	10 Hz to 100	kHz @ 55 W	10 Hz to 100	kHz @ 75 W			
Frequency Response (1 watt output)	+0, -1 dB, 10	Hz to 50 kHz					
Damping Factor	≥110€	1 kHz	≥55@	1 kHz			
Slew Rate	±50 volts/micros						
Signal-to-Noise (Input shorted)	≥110 dB, -6 ≥115 dB, IHI	dB/octave LPF F-A network	@ 12.47 kHz				
Residual Noise (Input ATT @ minimum)	Noise ≤ −80 dBm, −6 dB/octave LPF @ 12.47 k 5−90 dBm, HF-A network						
Input Impedance			lanced (ATT @ m				
Sensitivity	+4 dBm (1.23	V rms) for nom	inal output (4 ohr	n load)			
Voltage Gain	26.0 dB						
Indicators	Clipping: R	at or above 2 vo ed LED turns or ed LED turns or	on when signal pre- its RMS (20 Hz — when THD \geq 1% when protection when power is or	20 kHz). or muting is on			
Protection Circuits	DC sense: O Thermal: O Current Limiter: O	utput shut off if utput shut off if utput reduced if		output. 85 degrees C.			
Fan Circuit	Centigrade, fa	in goes to high s	when heat sink re- peed; then resets to	o low at 45°C.			
Controls	-20 to -30 c	p Input Attenua IB in 2 dB steps, ite attenuation. In Off POWER sw	tor; 0 to -20 dB i then -33, -37, - ritch.	n 1 dB steps, 42, -50, -60			
Power Requirements	105 - 130 vo	olts, 50 or 60 Hz	AC, 250 W (300	VAI			
Weight	28.6 lbs (13 l	(g)					
Dimensions	Width: 18-7/8 inches (480 mm) Height: 5-1/4 inches (132 mm) Overall Depth: 16-3/4 inches (423 mm) Depth Behind Front Panel: 15-1/8 inches (384 mm)						
Accessory	Rubber cap t setting of inp	o discourage una ut attenuator (in	uthorized or accid scluded).	lental changes i			

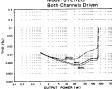
Output Power Specs meet		OUTPUT SPE	CIFICATIONS						
FTC preconditioning criteria	8 oh	ms	4 oh	ms					
	20Hz - 20kHz	1kHz	20Hz - 20kHz	1kHz					
Continuous sine wave output power at less than 0.05% THD	170 W	185 W	250 W	265 W					
Total Harmonic Distortion (THD)	≤ 0.007% @ 85 W	≤ 0.003% @ 85 W	≤ 0.01% @125 W	≤ 0.005% @ 125 W					
Intermodulation Distortion (IHD) 60 Hz & 7 kHz 4 : 1	≤ 0.005	% @ 85 W	≤0.01%	@ 125 W					
Power Bandwidth (@ THD ≤ 0.1%)	10 Hz to 100	kHz @ 85 W	10 Hz to 100	kHz @ 125 W					
Frequency Response (1 watt output)	+0, -1 dB, 10	Hz to 50 kHz							
Damping Factor	≥110 €	1 kHz	≥55 @	1 kHz					
Slew Rate	±50 volts/micros	econd full swing							
Signal-to-Noise (Input shorted)	≥ 110 dB, −6 ≥ 115 dB, IH	@ 12.47 kHz							
Residual Noise (Input ATT @ minimum)	≤−80 dBm, −6 dB/octave LPF @ 12.47 kHz ≤−90 dBm, IHF-A network								
Input Impedance	≥ 15 kohms, l	palanced or unba	lanced (ATT @ m	ax)					
Sensitivity	ivity +4 dBm (1.23 V rms) for nominal output (4 oh								
Voltage Gain	28.3 dB								
Indicators	Clipping: R Protection: R	at or above 2 vo ed LED turns on ed LED turns on	on when signal pre Its RMS (20 Hz — when THD \geq 1% when protection when power is or	20 kHz). or muting is on					
Protection Circuits	DC sense: O Thermal: O Current	utput shut off if	econds (± 2 sec.) at $\pm 2V$ DC sensed at heat sink temp. \geq load ≤ 2 ohms.	t output.					
Fan Circuit			when heat sink rea peed; then resets to						
Controls	Front: 32 step Input Attenuator; 0 to -20 dB in 1 dB steps, -20 to -30 dB in 2 dB steps, then -33, -37, -42, -50, -60 dB, and infinite attenuation. Push On/Push Off POWER switch.								
Power Requirements	105 - 130 vo	lts, 50 or 60 Hz,	AC, 400 W (450 Y	/A)					
Weight	33 lbs (15 kg)								
Dimensions	Width: 18-7/8 inches (480 mm) Height: 5-1/4 inches (132 mm) Overall Depth: 15-3/4 inches (423 mm) Depth Behind Front Panel: 15-1/8 inches (384 mm)								
Accessory	Rubber cap to setting of inpu	discourage una ut attenuator (in	uthorized or accid cluded).	ental changes in					

		OPERATION annel, with be			В	RIDGED MON	O OPERATI	ON
Output Power Specs meet	8 0	nms	4 ohms 20Hz – 1kHz		16 0	220 W 250 W 300 W 330 W 330 W 330 W 330 W 330 W 330 W 340 W	hms	
FTC preconditioning criteria	20Hz – 20kHz	1kHz	20Hz – 20kHz	1kHz		1kHz		1kHz
Continuous sine wave output power at less than 0.05% THD	100 W	105 W	150 W	165 W	220 W	250 W	300 W	330 W
Total Harmonic Distortion (THD)	≤0.007% @ 55 W	≤0.003% @ 55 W	≤0.01% @ 75 W	≤0.005% @ 75 W	≤0.007% @ 110 W	≤0.003% @ 110 W	≤0.01% @ 150 W	≤0.005% @ 150 W
Channel Separation (@ 3 dB below nominal power output, ATT @ max, input shorted)	≥70 dB	≥90 dB		-				
Intermodulation Distortion (IHD) 60 Hz & 7 kHz 4 : 1	≤0.005	6 @ 55 W	≤0.019	6 @ 75 W	≤0.01%	@ 110 W	≤0.01%	@ 150 W
Power Bandwidth (@ THD ≤ 0.1%)	10 Hz to 50	kHz @ 55 W	10 Hz to 50	kHz @ 75 W	10 Hz to 50	kHz @ 110 W	10 Hz to 50	kHz @ 150 W
Frequency Response (1 watt output)	+0, -1dB, 10	Hz to 50kHz						
Damping Factor	≥110 €	⊋1 kHz	≥55 0	⊉ 1 kHz				
Slew Rate	full swing	nicrosecond				microsecond		
Signal-to-Noise (Input shorted)	≥ 110 d ≥ 115 d	IB, -6 dB/oct IB, IHF-A net	ave LPF @ 1: work	2.47 kHz				2.47 kHz
Residual Noise (Input ATT @ minimum)	≦-80 dB ≤-90 dB	m, -6 dB/oct m, IHF-A net	ave LPF @ 12 work	2.47 kHz				
Input Impedance	≥15 kohr	ns, balanced o	r unbalanced	(ATT @ max)			
Sensitivity	+4 dBm (*	.23 V rms) fo	r nominal ou	tput (4 ohm l-	oadl			
Voltage Gain	26.0 dB			-				
Indicators	Signal: Clipping: Protection Pilot:	(20 Hz - 20 Red LED tu : Red LED tu	kHz) rns on when	THD ≥ 1% (x protection or	2).	at or above 2	voits RMS	
Protection Circuits	Thermal:	Output mut Output shut Output shut miter: Outpu	off if ± 2V [off if heat si	OC sensed at on nk temp. > 8!	degrees C.			
Fan Circuit	Fan is nor then reset	mally at low s to low at 45°	peed; when h	eat sink reach	es 60 degrees	Centigrade, fa	n goes to high	speed;
Controls	-33, -37 Push On/F	32 step Inpu -42, -50, - ush Off POWI NO/STEREO	60 dB, and in ER switch.	finite attenua		. −20 to −30 d	dB in 2 dB ste	eps, then
Power Requirements	105 - 130	volts, 50 or 6	0 Hz, AC, 50	00 W (600 V A	.)		_	
Weight	37.4 lbs (1	7 kg)						
Dimensions	Width: Height: Overall De Depth Beh	pth: ind Front Par	5-1/4 i 16-3/4 i	nches (480 mi nches (132 mi nches (423 mi nches (384 mi	m) m)			
Accessories	Rubber ca (included)	ps of discoura	ge unauthori	zed or acciden	tal changes in	setting of inp	ut attenuator	s

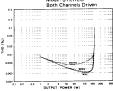
		OPERATION annel, with be			ВІ	RIDGED MON	O OPERATI	ON
Output Power Specs meet FTC preconditioning criteria	8 0	hms	4 0	16 obms	hms			
F IC preconditioning criteria	20Hz - 20kHz	1kHz	20Hz 20kHz	1kHz		1kHz		1kHz
Continuous sine wave output power at less than 0.05% THD	170 W	185 W	250 W					
Total Harmonic Distortion (THD)	≤0.007% @ 85 W	≤0.003% @ 85 W	≤0.01% @ 125 W			≤ 0.003% @ 85 W		≤ 0.005% @ 125 W
Channel Separation (@ 3 dB below nominal power output, ATT @ max, input shorted)	≥70 dB	≥ 90 dB						
Intermodulation Distortion (IHD) 60 Hz & 7 kHz 4 : 1	_	% @ 85 W	_					
Power Bandwidth (@ THD ≤ 0.1%)				kHz @ 125 W	10 Hz to 50	kHz @ 170 W	10 Hz to 50	kHz @ 250 W
Frequency Response (1 watt output)								
Damping Factor	≥110	@ 1 kHz	≥55	@ 1 kHz				
Slew Rate	full swing	microsecond			full swing			
Signal-to-Noise (Input shorted)	≥110 ≥115	dB, -6 dB/oct dB, IHF-A net	tave LPF @ 1 work	2.47 kHz	≥106 ≥110	dB, -6 dB/oct dB, IHF-A net	tave LPF @ 1: twork	2.47 kHz
Residual Noise (Input ATT @ minimum)	≤-90 dE	lm, IHF-A net	work					
Input Impedance								
Sensitivity	+4 dBm (1.23 V rms) fo	or nominal ou	tput (4 ohm l	oad)			
Voltage Gain	28.3 dB							
Indicators	Signal: Clipping: Protectio Pilot:	(20 Hz - 2 Red LED to n: Red LED to	0 kHz). urns on when urns on when	THD ≥ 1% (x protection or	2).	at or above 2	volts RMS	
Protection Circuits	Thermal: Current L	Output shu Output shu imiter: Outp	it off if ± 2V it off if heat s ut reduced if	DC sensed at o ink temp.≥8 load≤2 ohm:	output. 5 degrees C. s.			
Fan Circuit	then rese	ts to low at 45	5°C.					
Controls	-3337	7, —42, —50, - Push Off POW	-60 dB, and i	nfinite attenua	3 in 1 dB step ation.	s, -20 to -30	dB in 2 dB st	teps, then
Power Requirements	105 13	0 volts, 50 or	60 Hz, AC, 8	150 W (950 VA	N)			
Weight	41.8 lbs	19 kg)						
Dimensions		hind Front P	5-1/4 16-3/4 anel: 15-1/8	inches (132 m inches (423 m inches (384 m	nm) nm) nm)			
Accessories	Rubber of		rage unauthor	ized or accide	ntal changes i	n setting of in	out attenuato	rs

■PERFORMANCE GRAPHS

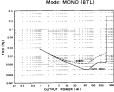
THD vs OUTPUT POWER CHARACTERISTICS <Model: P2150> Load Impedance: 4Ω Mode: STEREO



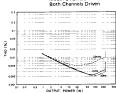
THD vs OUTPUT POWER CHARACTERISTICS < Model: P2150> Load Impedance: 8Ω Mode: STEREO



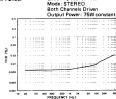
THD vs OUTPUT POWER CHARACTERISTICS <Model: P2150> Load Impedance: 8Ω Mode: MONO (BTL)



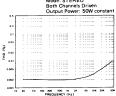
THD vs OUTPUT POWER CHARACTERISTICS <Model: 'P2250'> Load Impedance: 4Ω Mode: STEREO



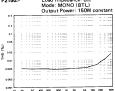
THD vs FREQUENCY CHARACTERISTICS < Model: P2150> Load Impedance: 4Ω



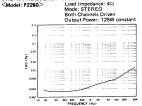
THD vs FREQUENCY CHARACTERISTICS <Model: P2150> Load Impedance: 8Ω Mode: STEREO



THD vs FREQUENCY CHARACTERISTICS <Model: P2150> Load Impedance: 8Ω Mode: MONO (BTL)



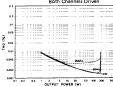
THD vs FREQUENCY CHARACTERISTICS



THD vs OUTPUT POWER CHARACTERISTICS Load Impedance: 8Ω

<Model: P2250>

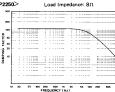
Mode: STEREO Both Channels Driven



IND VS OUTPUT POWER CHARACTERISTICS <Model: P2250> Load Impedance: 8Ω Mode: MONO (BTL)



DAMPING FACTOR CHARACTERISTICS <Model: P2250>

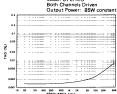


OUTPUT POWER (W)

THD vs FREQUENCY CHARACTERISTICS

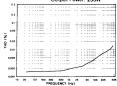
<Model: P2250>

Load Impedance: 8Ω Mode: STEREO



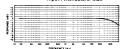
THD vs FREQUENCY CHARACTERISTICS Load Impedance: 8Ω MODE: MONO (BTL) <Model: P2250>

Output Power: 250W



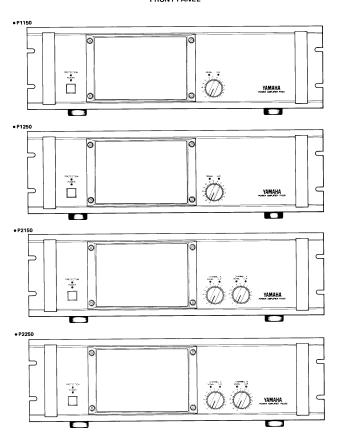
FREQUENCY RESPONSE CHARACTERISTICS <Model: all models> Load Impedance: 8Ω

Input Attenuators: Max

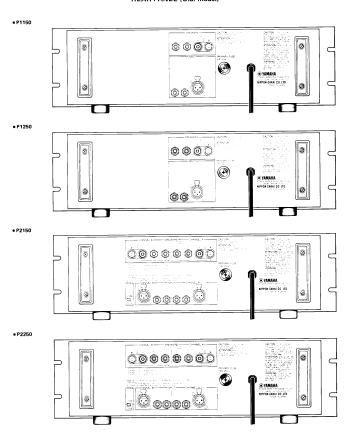


PANEL LAYOUT

FRONT PANEL



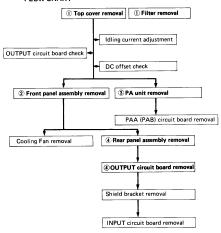
REAR PANEL (U.S. model)



■ DISASSEMBLY PROCEDURES

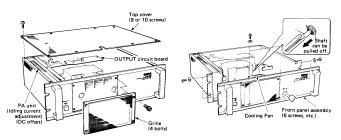
- Disconnect each connector as necessary for the part removal.
- Electric charge may be accumulated at the electrolytic capacitor of the power supply. Discharge it by shorting across the capacitor terminals with a resistor of 80. 100W or so.

FLOW CHART

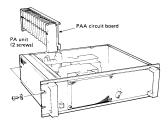


① TOP COVER REMOVAL/GRILLE REMOVAL

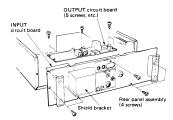
2 FRONT PANEL ASSEMBLY REMOVAL



3 PA UNIT REMOVAL



REAR PANEL ASSEMBLY REMOVAL/ OUTPUT CIRCUIT BOARD REMOVAL



ECHECK AND ADJUSTMENT

BEFORE ADJUSTING

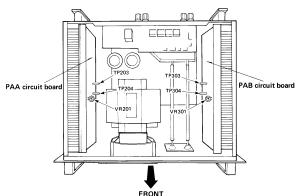
Be sure to wait for about 5 minutes after turning the power switch on, in order for the main amp's operation to become stable.

1. Idling current adjustment

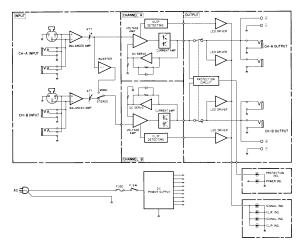
Adjust VR201 (and/or VR301) so that the voltage across the test points TP203 and TP204 on the PAA circuit board (and/or TP303 and TP304 on the PAB circuit board) is $12mV\pm0.5mV$ in a no signal condition.

2. DC offset check

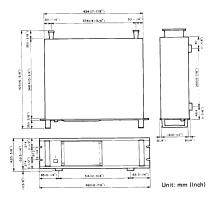
Check that the voltage across the SPEAKER terminals \oplus and \ominus is 0 ± 10mV in a no signal condition.



■BLOCK DIAGRAM

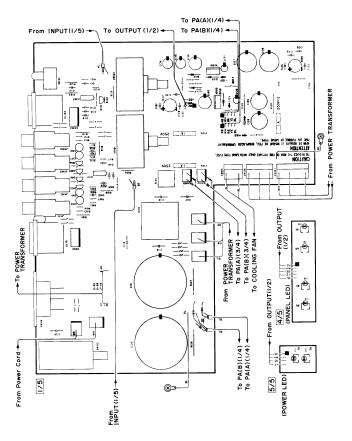


DIMENSIONS

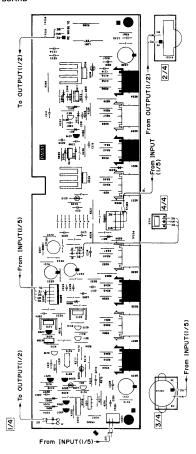


■CIRCUIT BOARDS (Parts side)

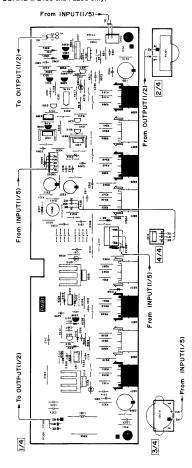
. INPUT CIRCUIT BOARD



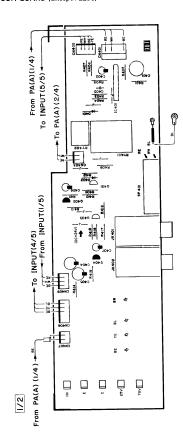
• PAA CIRCUIT BOARD



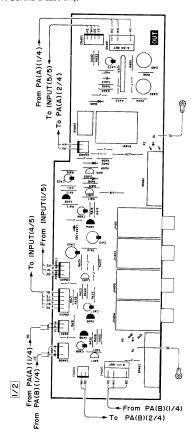
• PAB CIRCUIT BOARD (P2150 and P2250 only)

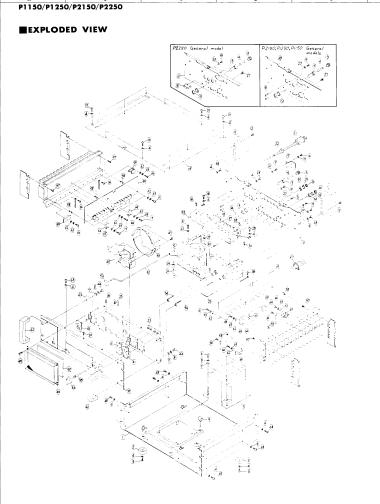


• OUTPUT CIRCUIT BOARD (Except P2250)



• OUTPUT CIRCUIT BOARD (P2250 only)





■PARTS LIST

1	Markets	ランク
The color of t		

## 6		
# 5 NB 83 18 70 Power Transformer		
# # N8 83 19 10 # # N8 83 19 50 # # N8 83 19 50 # # N8 83 18 80 # # P1250 # # N8 83 18 80 # # P1250 # # N8 83 18 80 # # # P1250 # # N8 83 19 30 # # # P2150 # # N8 83 19 30 # # # P2150 # # N8 83 19 30 # # # P2150 # # N8 83 19 30 # # # P2250 # # N8 83 19 30 # # # # # # # # # # # # # # # # # #		
# NB 83 19 50	J	
### No. 88 3 18 80	U,C	
# N N N N N N N N N N N N N N N N N N N	G	
# NR 83 19 30	J	
NB 83 18 80	U,C	
# NB 83 19 00	G	
# NB 83 19 40	J	
# NB 83 19 40	U,C	
*** NB 83 18 80	G	
*** NB 83 18 80	J	
# NB 83 19 20	U,C	
6	G	
P		
8 EV 30 35 06 Spring Wesher		-
## 0		_
# 10 AA \$3 31 20 Rear Panel		
# # AA 83 31 30 # # # # # # # # # # # # # # # # # #	i.	_
### ### ### ### #### #### ###########	U,C	_
## AA 83 30 00 ## P1250Mi ## NA 83 30 10 ## P1250Mi ## NA 83 30 10 ## N ##	G G	-
**	J	
***	U.C	
# N AA 83 30 60	G	
● n AA 83 30 70 n n n n n n n n n n n n n n n n n n	J	
## # AA 83 30 80 ## ## ## ## ## ## ## ## ## ## ## ## ##	-	-
# N AA 83 29 40 "" P2250M{	U,C	-
# # AA 83 29 50 # # # AA 83 29 50 # # # # # # # # # # # # # # # # # #	G	<u> </u>
# N AS 83 29 60	J	-
11 CB 80 86 50 Power Cord Holder コードリール 12 E 34 01 28 Bind Head Tapring Screw 4 x12 BI ペンドラッピッチネシ 13 UB 20 29 40 Fuse Holder 15A 250V ヒューズ ホルダー 14 KB 00 04 00 Fuse 5A 250V ヒューズ ホルダー 14 KB 00 14 20 n 5A 125V n n n 18 80 01 30 0 n 73 15A 250V n n n 19 10 10 10 10 10 10 10 10 10 10 10 10 10	U,C	
12 E 34 01 28 Bind Head Tapping Sorew 4 × 12 B パインドタッセンタネシ 13 LB 20 29 40 Fisse Holder 15A 250V に ュースネル・ダー 1	G	
13 LB 20 29 40 Fuse Holder 15A 250V L 2 - X ↑ h 49 - 1 H LB 20 05 80 N 6.3A 250V L 2 - X ↑ h 49 - 1 14 KB 00 04 00 Fuse 5A 250V L 2 - X ↑ P1150 N KB 00 14 20 N 5A 125V N N N N N N N N N N N N N N N N N N N		
## LB 20 05 90 ## 6.3A 250V ## 7 14 KB 00 04 00 Fuse 5A 250V L a − X P1150 ## KB 00 14 20 ## 5A 250V L a − X P1150 ## KB 00 07 60 ## 73.15A 250V ## ## ## KB 00 13 00 ## 7A 250V ## P1250 ## KB 00 13 00 ## 7A 250V ## ## ## KB 00 15 20 ## 7A 125V ## ## ## KB 00 14 90 ## 10A 250V ## ## ## KB 00 14 90 ## 10A 250V ## P2150 ## KB 00 13 00 ## 10A 250V ## P2150 ## KB 00 13 00 ## 10A 250V ## P2150 ## KB 00 00 77 0 ## T6.3A 250V ## ##	-	
14 K8 00 04 00 Fuse 5A 250V L a - X P1150 n K8 00 14 20 n 5A 125V n n n K8 00 15 20 n 73.15A 250V n n K8 00 15 20 n 73.15A 250V n n K8 00 15 20 n 74.125V n n K8 00 15 20 n 74.125V n n K8 00 15 20 n 74.125V n n K8 00 15 20 n 10.125V n n K8 00 17 00 n 10.125V n n K8 00 17 0 n 10.125V n n T6 3A 250V n n T7 0 n 10.125V n n T8 3A 250V n n T8 3A 250V n n	J,U,C	
n K8 00 14 20 n 5A 125V n n n n 1	G	
N K8 00 07 60 N T3.15A 250V N N N K8 00 13 00 N 7A 250V N P1250 N K8 00 15 20 N 7A 125V N N N K8 00 15 20 N T4.0A 250V N N N K8 00 14 90 N 10A 250V N P2150 N K8 00 13 90 N 10A 250V N N N K8 00 17 70 N T6.3A 250V N N	J	
N KB 00 13 00 N 7A 250V N P1250 N KB 00 15 20 N T4 0A 250V N N N KB 00 07 90 N T4 0A 250V N N N KB 00 14 90 N 10A 250V N P2150 N KB 00 13 90 N 10A 250V N N N KB 00 17 70 N T6 3A 250V N N N KB 00 17 70 N T6 3A 250V N N N KB 00 17 70 N T6 3A 250V N N N KB 00 17 70 N T6 3A 250V N N N KB 00 17 70 N T6 3A 250V N N N KB 00 17 70 N T6 3A 250V N N N KB 00 17 70 N T6 3A 250V N N N KB 00 17 70 N T6 3A 250V N N N KB 00 17 70 N T6 3A 250V N N N KB 00 17 70 N T6 3A 250V N N N KB 00 17 70 N N N N KB 00 17 70 N N N N N N N N N	U,C	
n KB 00 15 20 n 7A 125V n n n KB 00 07 90 n T4 0A 250V n n n KB 00 14 90 n 10A 250V n P2150 n KB 00 33 90 n 10A 250V n n n + n KB 00 77 n T6 3A 250V n n n	G	
N K8 00 07 90	J	
n K8 00 14 90 n 10A 250V n P2150 → n K8 00 13 90 n 10A 250V n n T6.3A 250V n n T6.3A 250V u n n	U,C	
" KB 00 13 90 " 10A 250V " " N KB 00 07 70 " T6.3A 250V " "	G	
÷ и КВ 00 07 70 и Т6.3A 250V и и	J	
	U,C	
	G	
" KB 00 12 70 " 15A 125V " P2250	J	
" KB 00 13 80 " 15A 250V " "	U.C	
" KB 00 07 90 " T4.0A 250V " "	G	t
* 15 AA 83 32 50 Fuse Cover	J,C	
16 Ei 33 00 86 Bind Head Tapping Screw 3×8 BI パインドタッピングネジ #	J,C	-
17 EV 41 30 36 Toothed Lock Washer A3S BI 精 付 康 金 "	J,C	-
18 LA 00 07 60 Lug Terminal 2P ラグ菓子板	J	-

●New Parts (新規部品)

	Ref. No.	Part No.	Descriptio	on .	# & &	Remarks	Common Model	Markets	ランク
ı	19	Ei 33 00 86	Bind Head Tapping Screw	3×8 BI	バインドタッピングネジ				
ı	20	EV 41 30 36	Toothed Lock Washer	A3S BI	歯 付 座 金				
1	21	MG 00 06 10	Power Cord	15A 125V 2.1m	1 2 2 3 − F			J	
- 1	"	MG 00 05 30	n n	10A 125V 2.2m	"			U,C	
Ī	"	MG 00 11 30	n .	6A 250V 3.5m	"			G	
ı	22	CB 80 68 50	Cord Stopper	6N3-4	コードストッパー			J,U,C	
ı	"	CB 03 28 40	"	5N-4	"			G	
*	23	NA 81 39 60	INPUT Circuit Board	=91980	INPUT > - 1	P1150 M 2		J	
*	"	NA 81 39 70	"	"	"	n .		U,C	
*	"	NA 81 39 80	"	,,	"	II .		G	
*	"	NA 81 40 80	,,	п	"	P1250M.		J	
*	"	NA 81 40 90	"	n n	"	n		U,C	
*	"	NA 81 41 00	"	"	"	n		G	
*	"	NA 81 40 20	"	"	"	P2150 M.		J	
*	"	NA 81 40 30	,,	"	"	n .		u,c	
*	n	NA 81 40 40	"	"	"	"		G	
	,,	NA 81 41 40	,,	n	"	P2250Mi		J	
	,,	NA 81 41 50	,,	"	"	"		U,C	
	"	NA 81 41 60	"	"	"	,,		G	
	24	EV 41 00 98	Toothed Lock Washer	A9S BI	歯 付 座 金	M2 P2256C			
ı	25	LX 20 00 10	Plain Washer	9S Cr	特殊平座金	1 /			
ŀ	26	LX 20 00 60	Hexagonal Nut	9S Ni	特別六角ナット	1			
ŀ	27	CB 06 88 80	Plastic Rivet		プラスチックリベット	· .		G	
ŀ	28	Ei 34 00 86	Bind Head Tapping Screw	4×8 BI	パインドタッピングネジ			_	
ı	29	LB 10 11 60	Receptacle		ボシティブロックレセプタクル	AMP			
İ	30	LB 10 11 80	Housing		ポシティブロックハウジング	b			
ı	31	Ei 34 00 86	Bind Head Tapping Screw	4×8 BI	パインドタッピングネジ			U.C	
ı	32	EV 41 30 46	Toothed Lock Washer	A4S BI	歯 付 座 金			U,C	
*	33	NA 81 42 40	OUTPUT Circuit Board	=92350	OUTPUT > - 1	P1150/P1250 Mg	_	J,G	
2	"	NA 81 46 00	"	"	001101 > 1	"		U	
-	"	NA 81 45 70	. "	"	"	,,		c	
_	"	NA 81 45 30	,,	"		P2150 Ma	-	J.G	
_	"	NA 81 45 90	"	"		"		U	
		NA 81 45 60	"	"	"	"		c	
*	-"-	NA 81 42 60	"	=91990	"	P2250 M.		J.G	
*		NA 81 45 80	,,	"	п п	"		U	<u> </u>
*	"	NA 81 45 50	"	"	"	"		c	
*	34	CA 80 91 60		"	絶棘ワッシャー			c	
^	35	CB 81 00 90			絶縁ナット	PZZSCM;	-	3	+
ł	36	Ei 33 00 66	-	3×6 BI	バインドタッピングネジ	,		-	\vdash
-	37	LB 20 15 40		50 Bi	ホーンジャック	Mi	-	С	-
- 1	38	EV 41 00 98		A9S BI	歯 付座 金	/ *		c	+
	39	BA 81 01 40		Bi		P1150 M.	-	-	-
*	39	BA 81 01 40	riont ranei	-	"	P1250 M		-	\vdash
*	"	BA 81 01 00	"		"	P2150 MJ			
*		BA 81 00 80	"		" "	P2250 M _A	-	-	\vdash
	40	CB 83 57 00			スイッチエスカッション				_
	41	CB 83 56 90			ツマミエスカッション			-	+
*	41	BA 80 19 50		-	アンプハンドル				-
	43	AA 83 29 20						-	+
92	44			5×12 BI	サブ パ ネ ルバインド小ネジ	-	-	-	+
		ED 35 01 26		DVIT BI		<u> </u>	-	_	+
*	45	JC 00 11 50		-	1				
*	46	CB 83 58 70 w Parts (新規部			9 2 1				

☀New Parts (新規部品)

[Ref. No.	Part No.	Description	on	部品名	Remarks	Common	Markets	ランク
- 1	47	Ei 33 01 26	Bind Head Tapping Screw	3×12 BI	バインドタッピングネジ				
*	48	NB 83 15 70	Front Grill		フロントグリル				
*	49	EX 80 01 80	Cap Screw	4×8 BI	六角欠付ポルト				I
*	50	CB 83 57 10	Filter		フィルター				
*	51	CB 83 61 70	Rod Holder		ロッドホルダー				
*	52	AA 83 28 40	Rod		n y F				
1	53	CB 81 23 80	Push Button		ブッシュボタン				
	54	BA 81 00 60			シャフト				
	55	CB 83 56 60			ジョイント				
ı	56	CB 81 23 70	Attenuator Knob		アッテネーターツマミ				
ı	57		Bind Head Tapping Screw	3×10 BI	パインドタッピングネジ				
- 1	58	AA 07 75 90			支 柱				
*	59		PAA Circuit Board	=92000	P A A > - 1	P1150/P2150			
*	"	NA 81 42 20		"	"	P1250/P2250			
*	60	NA 81 42 10	PAB Circuit Board	=92010	PABシート	P2150			
*	"	NA 81 42 30		n	n n	P2250			Ī
	61		Pan Head Screw	3×6 Ye	ナベ小キジ				
	62	EV 20 00 36		3S Ye	平 座 金				
	63		Spring Washer	3S Ye			T		
	64	iL 00 06 80			マイカベース				
æ	65	iX 80 12 70		2SA1186(O,Y)	トランジスタ	P1150/P2150			
-	"	iX 80 12 90		2SC2837(O,Y)	"	"			
	"	ix 80 12 80		2SA1303(0,Y)	"	P1250/P2250			
	"	iX 80 13 00		2SC3284(O,Y)	- "	"			
~	66		Pan Head Screw	3×12 Ye	ナベ小ネジ				
	67	CB 06 92 50			インシュロックタイ				
*	68	AA 83 28 80			トップカバー	P1150/P1250	-		
*	"	AA 83 28 70			"	P2150			
*	"	BA 81 06 40			"	P2250 P2150			1
~		CB 33 56 TC			7) 7 3	C			
			Cover, Knob		17711-	Č			T
		BA 31 CC 70	Panel	<u> </u>	10° 7 16	7225CC			
		BASICIIC			1	P1256C			
		BA 51 C1 36		†	1 (P2150C			
		B4810150			1 1	PIISCC			†
			Rear Panel		リアバネル		10	J	
	h	AA \$3 29 80	/		1///////	1,7,300	-	U,C	
		AA 33 29 9C	+ /		+ /	1	1	G	
		AA 83 34 EC			1 1	PIZSCC	-t -	J	
	<u> </u>	AA 83 36 50 AA 83 36 40		<u> </u>	+	1,2000	+	ŭ	+-
		AA \$336 50	1-1	†		+ +	+	9	_
		AA 334330			+ +	+ -	+	<u>د</u>	_
	\vdash	AA 333670	+-	+	+	P215CC	+	J	+-
	<u> </u>	AA 333160	4-1	+	+ +	121300	+	u,c	_
	 	AA \$33110			+	1 1	_	G	1
	\vdash	AA \$33640	+	+	+ +	PILSEC	+	J	
	\vdash	AA \$33160	1	-		1,11300	+	u	+-
	\vdash	AA\$33170	1	<u> </u>	+ + + -	+-(+	9	+
	<u> </u>	MU 53 433	1		+	+ 1	+	C	_
	<u> </u>	AA \$34.320		+	IN 5 - F	P2250C	-	J	\vdash
	-			-	CUISTE	122000	-	J	
	-	NA 81 4270				+-(-	u.c	+
	-	NA 814180		+	IN 5-4	+ 1	-	G	-
		NAS1419			IN 5-1-			14	_

☀New Parts(新規部品)

■CIRCUIT BOARDS & ELECTRICAL PARTS

Ref. No.	Part No.	Descriptio	n	# 品 名	Remarks	Common Model	Markets	ランク
	NA 81 39 60	INPUT Circuit Board	= 91980	INPUT ⇒ - F	P1150 Mi		J	
	NA 81 39 70	"	"	п	"		U,C	
	NA 81 39 80	"	"	"	"		G	
	NA 81 40 20	п	"	"	P2150/1		J	
	NA 81 40 30	n n	"	"	"		u,c	
	NA 81 40 40	"	"	"	"		G	
	NA 81 40 80	"	"	"	P1250M		J	
	NA 81 40 90	"	"	"	"		U,C	-
_	NA 81 41 00	11	,,	"	n		G	\vdash
	NA 81 41 40	"	"	"	P2250Mi		J	
	NA 81 41 50	,,	"	- "	"		Ų,C	
-	NA 81 41 60	"	"	"	"		G	-
<u> </u>		Electrolytic Cap.	10 _µ F 35V	ケミコン			-	+-
-	UJ 15 81 00	n	100µF 35V	"		•	_	-
\vdash	+		470μF 35V	"		-		+
_	UJ 15 84 70	"				8-		+-
	UW 69 81 00	н	100µF 100V	n n				+-
-	UJ 29 84 70	n n	470µF 100V	n n	01000	₽	-	+
<u> </u>	FZ 00 70 10	"	0.01F 80V	n	P1250			₩-
_	FZ 00 72 20	"	0.01F 63V	"	P1150			+
	FZ 00 67 90	"	0.015F 63V	"	P2150	_		⊢ −
	FZ 00 67 80	"	0.015F 80V	"	P2250			-
		Bipolar Electrolytic Cap.	22μF 16V	BPケミコン				_
	HU 07 63 90	Metal Film Resistor	3.9kΩ 1/4W	金属皮膜抵抗				_
	HU 07 71 20	n .	12kΩ 1/4W	"				
	HU 07 71 60	"	16kΩ 1/4W	"				
	HU 07 73 00	"	30kΩ 1/4W	"		ı		
	HU 07 73 90	n .	39kΩ 1/4W	"	P2150/P2250		I	
	HU 07 75 10	"	51kΩ 1/4W	n				
	HL 31 51 00	Metal Oxide Film Resistor	100Ω 1W	酸化金属皮膜抵抗		I		
	HL 32 71 00	"	10kΩ 2W	"				
	HZ 00 50 80	Wire Wound Resistor	680Ω 15W	セメント抵抗	P1150/P2150			
	HZ 00 50 30	"	1kΩ 15W	"	P1250/P2250			T
-	HY 00 19 20	Detent Variable Resistor	20kΩ	ディテント抵抗				T
\vdash	iH 00 00 30	Diode	10D1	9 1 1 - F				1
	iF 00 51 20	"	MC931	ダブルダイオード				_
-	iH 00 14 00	Bridge Rectifier	1G4B1	ブリッジダイオード				_
	iH 00 03 90	n noge nectinei	KBH-2504	"		•		+-
\vdash	iF 00 17 20		LN222RP	L E D		1	-	+
-	iF 00 17 20	"	LN322GP	L E D		•	-	+-
.—	iG 14 28 00		NJM5532D	, c		•		+-
-	-		NJM5532D NJM5534D	"	P2150/P2 25 0	•	-	+
·	iG 14 95 00	"			12150/F22 5 0	-		+
-	iG 06 39 00	"	μPC7815H	"		-	-	+-
	iG 07 75 00	"	μPC7915H	"	27	4		\vdash
-	KA 40 12 30			スライドスイッチ		I	G	-
<u></u>	KA 40 12 80	"	SSP32204	"	P2150 P2250 STEREO MONO			\vdash
-	KA 80 49 70	Power Switch		電源スイッチ		!	J	\vdash
	KA 80 49 80	"		"			U,C	\perp
•	KA 80 49 90	"		"		.	G	_
	KB 00 03 30	Fuse	1A 250V	t 1 - X			J	\perp
	KB 00 10 60	"	1A 250V	"			U,C	
	KB 00 06 70	н	T630mA 250V	"			G	
	LA 00 44 00	Terminal		ファストン端子				
	LB 20 15 30	Fuse Clip		ヒューズホルダービン				Т

☀New Parts(新規部品)

Ref. No.	Part No.	Descripti	on	部 品 名	Remarks	Common Model	Markets	₹:
	LB 30 20 70	Phone Jack	stereo	ホーンジャック	INPUT M. Type			L
	LB 30 23 20	XLR Connector	XLB-3-31-PCV	キャノンゾケット	"			Г
	LB 91 80 30		3P TE	コネクタベースピン	XH			Γ
	LB 92 80 30	Connector	3P	ウェハーアッセンブリー				Т
	LB 40 08 90	"	4P	"				T
	LB 50 04 70	"	5P	"				Т
	LB 01 40 30	Connector Housing	3P	コネクタハウジング		-		T
	LB 00 90 50	"	5P	"	XH			t
	LB 00 90 30	"	3P	"	-			t
	LB 00 90 40	"	4P	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				t
	LB 10 10 00		+"	コンタクトピン		-1		t
	LB 10 11 30	"	 	"	XH	-		H
	LB 30 11 50		3P	しコネクター	2"			٠
	LB 10 18 20		3r	コンタクトピン				٠
			26			-	_	+
	Ei 33 00 66	Bind Head Tapping Screw	3×6 Bi	パインドタッピングネジ		-		+
	Ei 34 01 66	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4×16 BI	"		-		+
	Ei 34 00 86	"	4×8 BI	n n			-	+
	ED 24 05 02		4×50 Cr	バインド小ネジ	-		-	+
	EV 30 34 06		4S BI	パキ産金	<u> </u>			1
	EV 41 30 46	Toothed Lock Washer	A4S BI	歯 付 座 金	<u> </u>			1
				"				\perp
	NA 81 42 00	PAA Circuit Board	= 92000	PAAシート	P1150/P2150			1
	NA 81 42 20	"	п	"	P1250/P2250			╙
	NA 81 42 10	PAB Circuit Board	= 92010	P A B $\dot{\nu}$ - h	P2150			L
	NA 81 42 30	п	n	"	P2250			L
	HV 35 34 70	Flame Proof Carbon Resistor	4.7Ω	不燃化カーボン抵抗				L
	HV 35 42 20	"	22Ω	"				Γ
	HV 35 44 70	"	47Ω	"				Т
	HV 35 51 00	"	100Ω	"				Τ
	HV 35 51 20	"	120Ω	"				T
	HV 35 52 20	"	220Ω	"				Т
	HV 35 52 70	"	270Ω	"				T
	HV 35 53 30	"	330Ω	, ,		_		T
	HV 35 55 60	"	560Ω	"				t
	HV 35 63 00	,,	3kΩ	"		_		t
	HU 57 54 30		430Ω 1/4W	金属皮膜抵抗	P1150/P2150			t
	HU 57 68 20	n n	8.2kΩ 1/4W	"	1			$^{+}$
	HU 57 71 80	"	18kΩ 1/4W	"	 			+
	HU 57 53 30	<u>"</u>	330n 1/4W	"	P1250/P2250	-		+
		Metal Oxide Film Resistor	100 1W	酸化金属皮膜抵抗		-1	+	+
	HL 31 48 20	metal Oxide Film Resistor	82Ω 1W	服10 面與皮肤悠久				+
	HL 31 48 20	"	4.7Ω 2W	- "	 		-	+
			0.33Ω 5W					+
	HZ 00 39 50			金属板抵抗			-	+
	HZ 00 48 20	"	100 5W	"		-		+
		Mylar Film Cap.	0.0022 _µ F 50V	マイラーコン	<u></u>	_	-	+
	UA 25 51 00		0.1 _µ F 50V	"				+
		Metalized Mylar Cap.	0.1 _µ F 100V	ммэ>		_		1
	FZ 00 52 10	"	0.22μF100V	"				1
	FZ 00 52 20		0.48 _μ F 100V	"				1
			33pF 500V	FEマイカコン		1		
	FU 35 13 30			1 2 1 1 2 - 1				
			150pF 500V	"				L
	FU 35 13 30 FU 35 21 50							+

☀New Parts(新規部品)

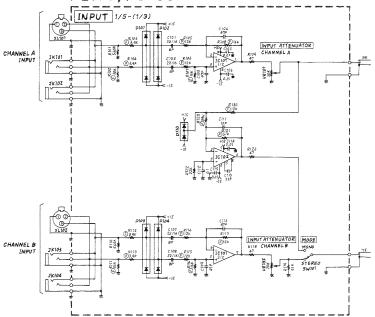
Ref.	Part No.	Description	on	都品名	Remarks	Common Model	Markets	ラン
	FT 55 25 60	Polyproplylene Cap.	560pF 50V	ポリプロコン				
	FT 55 26 80	"	680pF 50V	"				
	FT 55 31 50	"	1500pF 50V	"				
	UJ 28 82 20	Electrolytic Cap.	220µF 80V	ケミコン				
	UJ 29 74 70	"	47 _µ F 100V	"				
	iA 09 68 00	Transistor	2SA968 (O,Y)	トランジスタ			· ·	Т
	iC 22 38 00	"	2SC2238(O,Y)	"				Г
	iA 13 60 00	"	2SA1360(0,Y)	,,				
	iC 34 23 00	"	2SC3423(O,Y)	,,				T
	iA 09 70 00	,,	2SA970 (GR.BL)	"			-	t
_	iA 10 15 30	"	2SA1015(Y,GR)	,,				1
	iC 18 15 30	"	2SC1815 (GR)	"		+8		✝
_	iC 22 91 00	"	2SC2291 F,G,H	"		1		$^{-}$
-			2SC2240(GR.BL)	"		+	-	
-		II .		F E T		+		+
<u> </u>	iE 10 45 10		2SK389 (BL,V)			1		+
<u> </u>	iF 00 06 70	Diode	152473			-		+
<u> </u>	iF 00 14 00	"	1SS82	п		-	-	+
	iH 00 03 20	"	1S1888	"		+		+
	iF 00 51 20	"	MC931	ダブルダイオード		-	-	+
	iF 00 56 00		RD5.6EB2	ツェナーダイオード		-		+
	iF 00 07 90		MV-12	パリスタ		-	-	╁
	iF 00 61 90	LED	LTZ-R17	L E D		-		╀
	iG 10 70 00	IC	NJM072D	1 C				╀
	HT 41 03 70	Trimmer Potentiometer	Β470Ω	ソリッドVR				1
	GD 90 05 80	Coil	2.0 _µ F	コイル				Ļ
	BA 01 18 70			放熟板				╀
	KA 00 02 20	Thermal Reed Switch	OHD-85B	サーマルガード				\perp
	KA 90 70 00	Relay	INT60M15	9 v -				L
	LB 60 77 70	Transistor Socket	M168Z	トランジスタソケット				\perp
	LB 92 80 30	Connector	3P	ウェハーアッセンブリー				1
	LB 91 80 30	Connector Base Pin	3P	コネクタベースピン	XH			
	LB 91 80 50	"	5P	"	n			
	LB 00 70 40	Connector Housing	4P	コネクタハウジング		T		Т
—	LB 00 90 30	"	3P	"	XH			Т
\vdash	LB 00 90 20	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2P	"	ll .			1
-	LB 10 10 00	Contact Pin		コンタクトピン		1		Ť
\vdash	LB 10 11 30		1	"	XH			t
_	Ei 33 00 86		3×8 BI	パインドタッピングネジ		1	-	t
	EV 30 33 06		3S BI	パオ座金				t
	EV 20 30 36		3S BI	平 座 金				+
<u> </u>	EV 20 30 30	Tidt VVdarier	00 01			_		+
-	NA 04 40 10	OLETRI IT Circuit Ro	- 02250	OUTPUT > - F	P1150/P1250M;	+	J,G	$^{+}$
-	NA 81 42 40		= 92350	001701 2 - 1	// // // // // // // // // // // // //	+	U	$^{+}$
⊢	NA 81 46 00		"	- "	- "	+	c	+
<u></u>	NA 81 45 70		"	"	P2150M	+	J.G	+
<u> </u>	NA 81 45 30		"		P2150P\\\	+	U	+
_	NA 81 45 90		"	"		+	c	+
<u> </u>	NA 81 45 60		"	"	# P0050.4:	+	J.G	+
L_	NA 81 42 60		= 91990	"	P2250M i	+		+
	NA 81 45 80		n .	"	"	+	U	+
L_	NA 81 45 50		"	"	"	-	С	+
•		Electrolytic Cap.	100 _µ F 10V	ケミコン			-	+
L	UW 55 74 70		47 _µ F 35V	-11		4		1
	UW 56 61 00) "	1μF 50V	n n	1		1	- 1

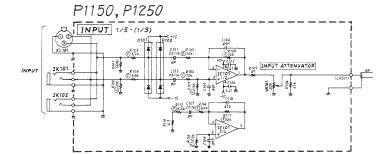
※New Parts (新規部品)

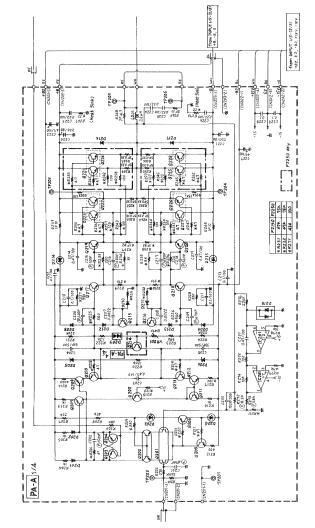
Ref. No.	Part No.	Description		* 4 4	Remarks	Common Model	Markets	ランク
	UK 74 81 00	Bipolar Electrolytic Cap.	100μF 25V	BPケミコン				
	iA 09 70 00	Transistor	2SA970 (GR, BL)	トランジスタ				1
	iC 22 40 00	"	2SA2240(GR, BL)	"				Ш.
	iF 00:06:70	Diode	1S2473	ダイオード				_
	iH 00 00 30	"	10D-1	"				
	iG 03 48 00	IC	TA7317P	- 0				
	KC 00 20 10	Relay	MS24D4	リレー	P1150/P1250/P2150			I .
	KC 00 19 80	n .	MZ-24	"				_
	KC:00:19:70	"	MSJ24	"	P2250			
	LB 10 05 00	Phone Jack		ホーンジャック			J,U,G	
	LA 00 55 10	Speaker Terminal	Left	スピーカーターミナル	P1250,2250,2150 mg	·	J,G	
	LA 00 55 30	n	"	"	Mi.C		U,C	\perp
	LA 00 55 20	"	Right	"	P2150/P2250 M;		J,G	
	LA 00 55 40	n	,,	"	" Mic		U,C	
	LB 91 80 20	Connector Base Pin	2P	コネクタベースピン	XH			
	LB 91 80 30	"	3P	"	"			Т
	LB 91 80 40	"	4P	"	"			
	LB 91 80 50	"	5P	"	"			Т
	LB 40 08 50	Connector	4P	ウェハーアッセンブリー				
-	CA 80 91 60	Insulating Washer		絶縁ワッシャー	Mi Type		J,U,G	
	NASIALIC	P.C.B Ass'y , IN		IN 5-F	P1250 C		J	
	N4814250			CUT /	1			
	NA 314120	IN		1 1	\		u.c	T
	N 181413C	I.V.		Z.N.			6	T
	NA 81 4050	110	-	IN	P 215C C		Ĵ	
	NA 3 1454C	CUT		cut	/			
	NA 31 46 66	AI /		IN			U, C	
	NAS14070	\ IN		10			9	1
	NA 813490	IN		ÍN	PIISCC		J	Т
	NA814256	CUT		cui	/			\top
	NA 814666	ī N		IN			u.c	T
	N 1 8 1 4 C 1 C			in)			6	
	AA8328 60	1 110		BS 全具 (ス)	4			T
	CB 82 74 20	Cocen		7/1°-	P2250 C		J. u	
	LACC SE IC	Citti		1377 K103	P2250C		J. U	\top
	CB 31 CC 7C			おおりっト	P1250C	_	J	1
	CB 31 66 90			')	P2256 C		U.C. 6	1
	AA 833366			ファットスペーサ	P12566 P11566	_		1
	EK CC 23 TC		16x 9 x C. 3		P2250C, P1250Mi			T
	AA 83 34 30		10.11.01.5	B)复具(小)	Car			T
	HJ357366		36 K 42	カーボン投が	(Type			T
	KA46 1710		JV1	スライト・・・・・	C TYPE	Till Till		+
	LA (6 5560			力ン通端子な	PZ1566, P22566			\top
	LB 60 30 30			オクフルツァット	C Type			1
	CA 8041 60			紀録ワッシャー	P12500			1
	LACC 5470			オンツウ綿子会	P22566 P21566	10		+
	LB ICCSCO			5"py 7	P1256, P2150, P2250	-	J. U. 9	+
				スピーターターミナル			1	+
_	LA CC 55 3C		-	7 7 7	CTYPE			+
-	LACC SS 40	 		·	CIPPE	-	+	+
	++++					 	+	+
-	+ +			-		—	+	+
			l				+-	+-

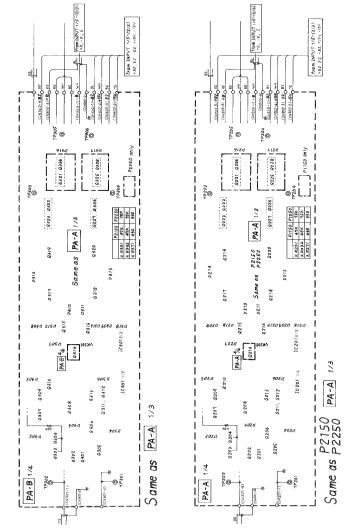
☀New Parts (新規部品)

P2150, P2250









		* C120	Wire Color						
	*R125	* CISI	* A	*8	*c	*D	×Ε		
P1150	15P 680	10000 /63	ΥE	YE	OR	8E	₿₿		
P1250	15P 1K	10000/80	YΕ	YE	OR	BE	8E		
P2150	15P 680	15000/63	BE	BE	٧J	0.R	OR		
				_		470	40		

	×F101 ~ 104
Japanese	1A 250 V
U.S and Canadian	1A 250Y
General	T630mA 250V

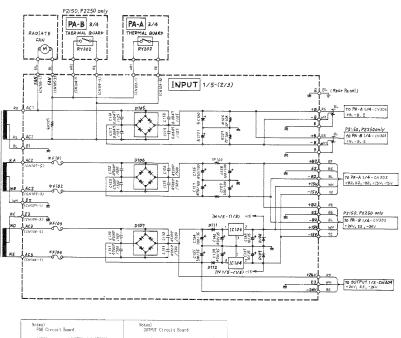
P2150	15P 680 15	000/63	BE	BE	VI OR	OR		Gener	ral		T6:	30 m	A 250 V				
P2250	15P IK 15	081000	Pk	Pk	VI OR	OR											
$\overline{}$	Jap	anese			U.S. An	d Ca	nadian	Ger	erai	exce;	rt P2250)[Gener	g)(P22	50 only)	
	Power Transforme	* F00	1 0		ower nstorme	. ≪ F	001	Poi Transi		∦ F	001	Ti	Power ansform	· ·F	001	≱F002	
P1150	GA83780		50V		83790	5A	125 V	GA8	3800		A 250V			I			
P1250	GA83810		504		83820		125¥		3830	T4.0						1	
P2150 P2250	GA83720 GA83750		50V 50V		83730 83760	10A	250 V 250 V	GAS	3740	76.3	A 250 Y	⊣⊢	A83770	+	A 250¥	T4.0A 250	-
General (P2250 or	model model	NPU* /5-(3/ /09/05/55/50/09/09/09/09/09/09/09/09/09/09/09/09/09	LTAGETO		Ø€ KE	<u>22</u>	οv	Total Total			Canaaa 1/	75-00 5-00 5-00 5-00 5-00 5-00 5-00 5-00	23	(3) 	190ma (QOQ)		
Notes) INPU	T Circuit Bo	ard	_		N	otes) FAA C	ircuit f	Board									
1010			:G142	9000		10201		:NJM072	0.000	17000		ı					
1010	12 :NJM	5534D (GL49	500)		6201				110002							
1010	14 :#P		16063			0902		:25K3B9 :25C229	(BL, V) 1 (F, G, I	1)							
D101	~104.110:MC9	31				207.	204, 206, 216 215	:284970	(GR. BL.								
0105	: KBH : 107 : 164	-2504 B1			i	9205	215 210, 218	:25C224 :2SA136	D (GR. B	.)							
0108	3.109. 1.112 :10D					9209 9211		:2\$A101 :2\$C181	5 (Y. GR)			-					
1 111	. 100					0213.	214.217	:2SC342	3(0.7)			-					
LED1	11,112				- 1	9219 9220		:2\$C223 :2\$4968				i					
1 1	15.116 :LN2 13.114 :LN3	22RP 22GP				0221~	224 50/P2150	0):2SC283									
)1.102 :20k					(P12 0225~	50/P2250	D):2SC328	4 (0. Y)			i					
ARIC	71.102 :2UK				-	(PI1	50/P2156	D):2SA118	6 (0. Y)								
						(P12	50/P225i	D):2SA130	3(0.Y)								
						0201. 213	202,212	:152473				-					
						0283	204,214					-					
						215 0205.	200	:LTZ-R1 :R05.6EI									
						0207		:MV-12 :1SS82				-					
						0216.	217	:151888									
						0218		:MC931				-					
					i	VP201		- a 470 O									

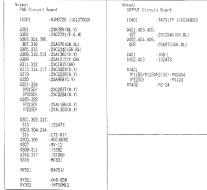
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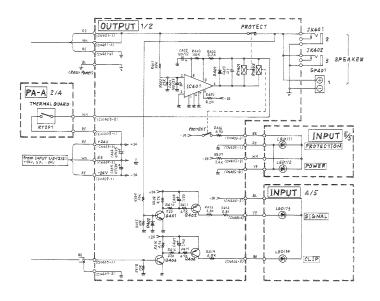
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VR201

RY201 RY202



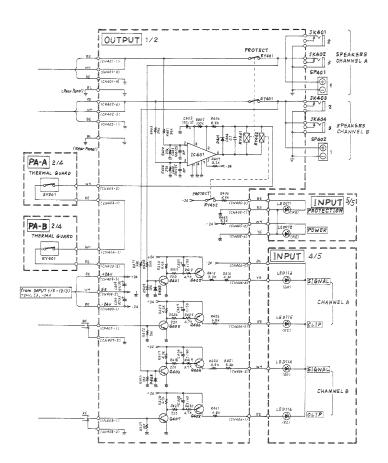


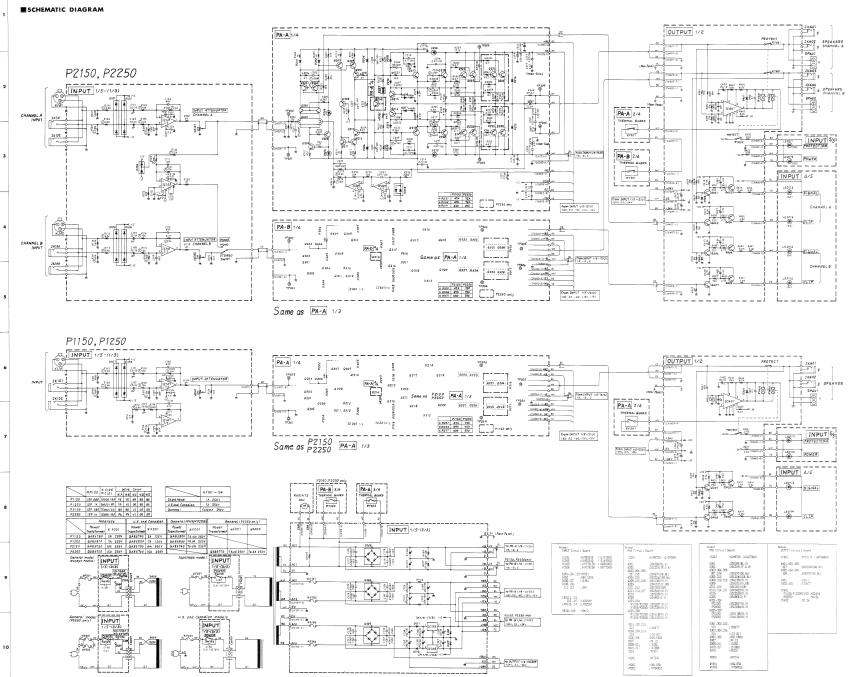


- WIRE COLOR ARRREVIATIONS

BE→Blue RE→Red
BL→Black SB→Sky Blue
BR→Brown VI→Violet
GR→Green WHI→White
GY→Gray YE→Yellow
OR→Orange

*Schematic diagram subjects to change without notice.





· WIRE COLOR ABBREVIATIONS

BE→Blue RE→Red BL→Black SB→Sky Blue BR→Brown VI→Violet GR→Green WH→White GY→Gray YE→Yellow

*Schematic diagram subjects to change without notice.